

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Noriyoshi Satoh et al.
Title: VIBRATION MOTOR HOLDING APPARATUS AND PORTABLE
ELECTRONIC EQUIPMENT HAVING THE SAME
Docket No.: 32184US1

PRELIMINARY AMENDMENT SUBMITTED WITH
FILING OF DIVISIONAL PATENT APPLICATION

Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

This Preliminary Amendment is being filed along with a divisional patent application of the above-entitled invention. Please amend the application as follows prior to examination.

IN THE SPECIFICATION:

On page 1 of the specification, immediately following the title of the invention and preceding the section entitled "BACKGROUND OF THE INVENTION", please insert the following paragraph.

This patent application is a divisional patent application of U.S. Patent Application Serial No. 09/472,477 filed on December 27, 1999.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231 on the date indicated below.

Jeffrey J. Sopko

Name of Attorney for Applicant

4/501

Date

Signature of Attorney

IN THE CLAIMS:

Please cancel without prejudice claims 1, 2, 4, 9, and 12.

Please amend claims 3, 5-8, 10-11, and 13-14 as follows.

1 3. (amended) An apparatus for holding a vibration motor
2 comprising:
3 a rotating body having:
4 a base having a front surface;
5 a rotary member provided on the front surface of the
6 base; and
7 a cover having an electromagnetically shielding property
8 and covering the rotary member;
9 a board on which the rotating body is mounted; and
10 a shield member covering at least a part of the board, wherein
11 the rotating body is disposed inside the shield member.

1 5. (amended) An apparatus for holding a vibration motor
2 according to claim 3, wherein a hole is defined in the cover
3 to connect spaces of inside and outside of the cover to each
4 other.

1 6. (amended) An apparatus for holding a vibration motor
2 according to claim 3, wherein the cover perfectly contacts to
3 the front surface of the base to perform positioning of the
4 cover in the height direction.

1 7. (amended) An apparatus for holding a vibration motor
2 according to claim 3, wherein a fillet formed on the outside
3 of the base is used for positioning the vibration motor.

1 8. (amended) An apparatus for holding a vibration motor
2 according to claim 3, wherein the cover is electrically
3 connected to the board.

1 10. (amended) Portable electronic equipment comprising an
2 apparatus for holding a vibration motor according to claim 3.

1 11. (amended) An apparatus for holding a vibration motor
2 according to claim 3, wherein the cover has a flat surface for
3 an air-sucking.

1 13. (amended) An apparatus for holding a vibration motor
2 according to claim 3, wherein the cover is made of resin;
3 the cover is coated with non-electrolytic copper; and
4 the cover coated with non-electrolytic copper is coated
5 with non-electrolytic nickel.

1 14. (amended) An apparatus for holding a vibration motor
2 according to claim 13, wherein the resin is selected from the
3 group consisting of acrylonitrile, butadiene and styrene.

REMARKS

If there are any fees required by this communication that
are not covered by an enclosed check, please charge such fees
to our Deposit Account No. 16-0820, Order No. 32184US1.

Respectfully submitted,

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1 3. (amended) [A vibration motor holding apparatus
2 comprising] An apparatus for holding a vibration motor
3 comprising:
4 a rotating body having:
5 a base having a front surface;
6 a rotary member provided on the front surface of the
7 base; and
8 a cover having an electromagnetically shielding property
9 and covering the rotary member;
10 a board on which the rotating body is mounted; and
11 a shield member covering at least a part of the board, wherein
12 the rotating body is disposed inside the shield member.

1 5. (amended) [The vibration motor holding apparatus] An
2 apparatus for holding a vibration motor according to claim [1]
3 3, wherein a hole is defined in the cover to connect spaces of
4 inside and outside of the cover to each other. 6. (amended)
5 [The vibration motor holding apparatus] An apparatus for
6 holding a vibration motor according to claim [1] 3, wherein
7 the cover perfectly contacts to the front surface of the base
8 to perform positioning of the cover in the height direction.

1 7. (amended) [The vibration motor holding apparatus] An
2 apparatus for holding a vibration motor according to claim [1]
3 3, wherein [at least one of the position identifying mark,
4 marking on the top surface of the cover, shapes of the base
5 and the cover, and] a fillet formed on the outside of the base
6 is used for positioning the vibration motor.

1 8. (amended) [The vibration motor holding apparatus] An
2 apparatus for holding a vibration motor according to claim [1]
3 3, wherein the cover is electrically connected to the board.

1 10. (amended) [The portable] Portable electronic

equipment comprising an apparatus for holding a vibration motor according to claim 3 [a vibration motor holding apparatus including:
a rotating body having:
a base;
a rotary member disposed on the base; and
a cover covering the rotary member; and
a board on which the rotating body is mounted, wherein a position identifying mark is provided on the board to mount the rotating body in a predetermined position on the board; and
the position identifying mark is exposed in an outside of an outline of the rotating body when the rotating body is mounted in the predetermined position on the board].

11. (amended) [The vibration motor holding apparatus] An apparatus for holding a vibration motor according to claim [1] 3, wherein the cover has a flat surface for an air-sucking.

13. (amended) [The vibration motor holding apparatus] An apparatus for holding a vibration motor according to claim 3, wherein the cover is made of resin;
the cover is coated with non-electrolytic copper; and
the cover coated with non-electrolytic copper is coated with non-electrolytic nickel.

14. (amended) [The vibration motor holding apparatus] An apparatus for holding a vibration motor according to claim 13, wherein the resin is selected from [a] the group consisting of acrylonitrile, butadiene and styrene.